

APPENDIX

VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE CLAIMS:

The claims are amended as follows:

1. (Amended) An electromotive device used in an oil, said electromagnetic device comprising:
 - an outer casing;
 - a moveable shaft supported by said outer casing;
 - a bobbin disposed inside said outer casing so as to be disposed around said moveable shaft on a common axis with said moveable shaft; and
 - a coil embedded in an outer molding, said coil being constructed by winding a conducting wire onto said bobbin, and
means for preventing sulfur compounds from permeating said bobbin and
said outer molding and attendantly reducing the formation of sulfur compounds on a
surface of said conducting wire, thereby suppressing the reduction in adhesive strength of
an electrically-insulating layer to said conducting wire, wire breakage, and short
circuited between said conducting wires,
said preventing means comprising forming wherein said bobbin and said outer molding are composed of an electrically-insulating material resistant to permeation by sulfur compounds.

3. (Amended) An electromotive device used in an oil, said electromagnetic device comprising:

an outer casing;

a moveable shaft supported by said outer casing;

a bobbin disposed inside said outer casing so as to be disposed around said moveable shaft on a common axis with said moveable shaft; and

a coil embedded in an outer molding, said coil being constructed by winding a conducting wire onto said bobbin,

~~wherein said conducting wire is constituted by a copper wire, an electrically-insulating layer coated on said copper conducting wire, and~~

a protective layer coated on said electrically-insulating layer, and

means for preventing sulfur compounds from permeating said protective layer and attendantly reducing the formation of sulfur compounds on a surface of said conducting wire, thereby suppressing reduction in adhesive strength of the electrically-insulating layer to the conducting wire, wire breakage, and short circuiting between said conducting wires,

said preventing means comprising forming said protective layer being composed of an electrically-insulating material resistant to permeation by sulfur compounds.

AMENDMENT UNDER 37 C.F.R. § 1.111
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5. (Amended) An electromotive device used in an oil, said electromagnetic device comprising:

an outer casing;

a moveable shaft supported by said outer casing;

a bobbin disposed inside said outer casing so as to be disposed around said moveable shaft on a common axis with said moveable shaft; and

a coil embedded in an outer molding, said coil being constructed by winding a conducting wire onto said bobbin,

~~wherein said conducting wire is constituted by a copper wire, a high-temperature solder layer coated on said copper conducting wire, and~~

a protective layer coated on said high-temperature solder layer, and

means for preventing sulfur compounds from permeating said protective layer and attendantly reducing the formation of sulfur compounds on a surface of said conducting wire, thereby suppressing reduction in adhesive strength of an electrically-insulating layer to the conducting wire, wire breakage, and short circuiting between said conducting wires,

said preventing means comprising forming said protective layer being composed of an electrically-insulating material resistant to permeation by sulfur compounds.